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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-09-21-55 **Date: 22-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP,
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kondappa Layout Western Side Roads in Chowdeshwari Ward No-02
Agency	:	Sri S Somashekar No:15/44/1, Allalasandra GKVK Post, Bangalore-65
Customer's Reference	:	EE(YNK.D)E-PMT-09/W O/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	20-07-19
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.05%	–
2	Finess by Air permeablity method (m^2/kg,Min)	293.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-21-55** **Date: 22-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kondappa Layout Western Side Roads in Chowdeshwari Ward No-02.
Agency	:	Sri.S Somashekar No:15/44/1, Allalasandra GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	19-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	424	424	2.8	97.2	90-100
3	20 mm	5857	6281	41.9	58.1	30-70
4	10 mm	4228	10509	70.1	29.9	10-35
5	4.75 mm	4226	14735	98.2	1.8	0-5
6	Pan	265	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-21-55** **Date: 22-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kondappa Layout Western Side Roads in Chowdeshwari Ward No-02.
Agency	:	Sri.S Somashekar No:15/44/1, Allalasandra GKVK Post, Bangalore-65.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	275	275	5.5	94.5	90-100
3	10 mm	2751	3026	60.5	39.5	25-55
4	4.75 mm	1750	4776	95.5	4.5	0-10
5	Pan	224	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Date: 22-07-19

Lab ID	:	CP-2019-09-21-55
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kondappa Layout Western Side Roads in Chowdeshwari Ward No-02.
Agency	:	Sri.S Somashekar No:15/44/1, Allalasandra GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-07-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	19-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Date: 24-07-19

Lab ID	:	CP-2019-09-21-55
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kondappa Layout Western Side Roads in Chowdeshwari Ward No-02.
Agency	:	Sri.S Somashekar No:15/44/1, Allalasandra GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	23-07-19

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/08/2019

Lab ID	:	CP-2019-09-21-55
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kondappa Layout Western Side Roads in Chowdeshwari Ward No-02.
Agency	:	Sri.S Somashekar No:15/44/1, Allalasandra GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	149.29 X 151.55 X 150.59	22625	8.265	424.8	18.8	18.5
2	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	150.95 X 150.24 X 149.62	22680	8.691	415.4	18.3	
3	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	151.49 X 149.97 X 150.22	22719	8.582	417.4	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-21-55** **Date: 05/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kondappa Layout Western Side Roads in Chowdeshwari Ward No-02.
Agency	:	Sri.S Somashekar No:15/44/1, Allalasandra GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/08/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	150.71 X 151.71 X 149.39	22865	8.265	415.3	18.2	18.2
2	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	151.67 X 149.83 X 151.85	22725	8.691	414.4	18.2	
3	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	150.83 X 149.33 X 150.11	22524	8.582	408.7	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/08/2019

Lab ID	:	**CP-2019-09-21-55**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kondappa Layout Western Side Roads in Chowdeshwari Ward No-02.
Agency	:	Sri.S Somashekar No:15/44/1, Allalasandra GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/08/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	151.56 X 149.30 X 151.21	22628	8.265	419.1	18.5	18.4
2	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	151.51 X 149.03 X 149.80	22580	8.691	421.7	18.7	
3	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	149.71 X 151.72 X 149.21	22714	8.582	411.3	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/08/2019

Lab ID	:	CP-2019-09-21-55
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kondappa Layout Western Side Roads in Chowdeshwari Ward No-02.
Agency	:	Sri.S Somashekar No:15/44/1, Allalasandra GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/08/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/07/2019	06/08/2019	149.56 X 151.67 X 150.48	22684	8.011	573.5	25.3	25.5
2	Cement Concrete Pavement	M30	30/07/2019	06/08/2019	151.50 X 151.64 X 149.73	22973	8.350	617.0	26.9	
3	Cement Concrete Pavement	M30	30/07/2019	06/08/2019	151.37 X 149.93 X 151.76	22694	8.890	554.9	24.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/08/2019

Lab ID	:	CP-2019-09-21-55
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kondappa Layout Western Side Roads in Chowdeshwari Ward No-02.
Agency	:	Sri.S Somashekar No:15/44/1, Allalasandra GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Ave.age Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/07/2019	06/08/2019	151.75 X 151.83 X 151.08	23040	8.011	594.9	25.8	25.8
2	Cement Concrete Pavement	M30	30/07/2019	06/08/2019	149.60 X 150.38 X 149.75	22497	8.350	603.6	26.8	
3	Cement Concrete Pavement	M30	30/07/2019	06/08/2019	151.03 X 149.49 X 151.00	22576	8.890	559.1	24.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-21-55 **Date: 06/08/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drain at Kondappa Layout Western Side Roads in Chowdeshwari Ward No-02.

Agency : Sri.S Somashekar No:15/44/1, Allalasandra GKVK Post, Bangalore-65.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/80/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-08-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/07/2019	06/08/2019	150.24 X 150.32 X 151.31	22585	8.011	567.3	25.1	25.2
2	Cement Concrete Pavement	M30	30/07/2019	06/08/2019	149.95 X 151.30 X 149.41	22687	8.350	590.7	26.0	
3	Cement Concrete Pavement	M30	30/07/2019	06/08/2019	150.91 X 149.69 X 150.69	22589	8.890	551.5	24.4	

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